

Regulatory Antenna Information

Antenna information				
Vendor		Type	Antenna Part number (GPS)	Antenna Part number (LoRa)
Haitong		PIFA / Monopole	1415-08VK0VX	1415-08VK0VX
Peak gain w/ cable loss (dBi)*				
	0.92GHz 902-928 MHz	1.575GHz 1575 MHz	2.4GHz 2400-2500 MHz	5.8GHz 5725-5890 MHz
GPS/BLE1	-	-1.5	1.35	-
LoRa/BLE2	-3.16	-	0.54	-
MPS	-	-	-	4.15

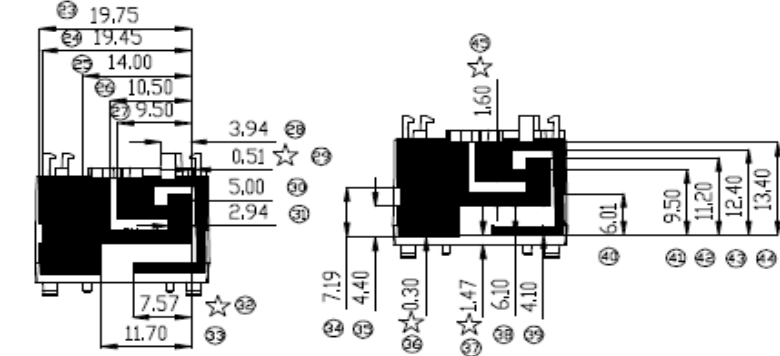
Antenna Assembly Specifications

Antenna Part Number	Antenna Type	Cable Assembly Part Number and Information	Freq Range MHz	* Peak Gain W/ Cable loss (dBi)	Max VSWR
(P/N: 1415-08VK0VX) GPS / BLE1 Antenna	PIFA	Spring	1575	-1.50	2.0
			2400-2500	1.35	2.0
(P/N: 1415-08VK0VX) LoRa / BLE2 Antenna	Monopole	Spring	902-928	-3.16	3.0
			2400-2500	0.54	2.0
(P/N:) MPS Antenna	PIFA	On Board	5725-5890	4.15	2.5

Dimensioned Photos and Drawings of Antennas

Include the dimensioned photo and drawing of GPS / BLE1 antenna here.

GPS / BLE1 Antenna Drawing:

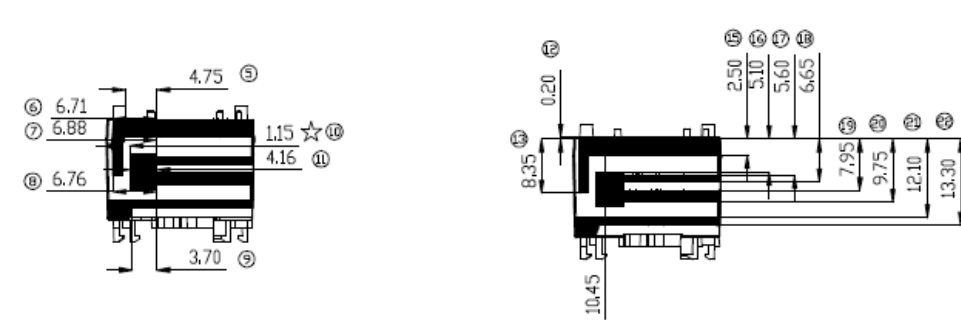


GPS / BLE1 Antenna Photo:



Include the dimensioned photo and drawing of LoRa / BLE2 antenna here.

LoRa / BLE2 Antenna Drawing:



LoRa / BLE2 Antenna Photo:



Include the dimensioned photo and drawing of MPS antenna here.

MPS Antenna Drawing:

MPS Antenna Photo

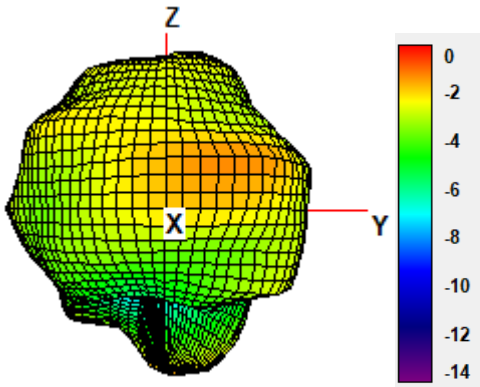


Radiation characteristics of antenna loaded in Host Platform

GPS / BLE1 Antenna

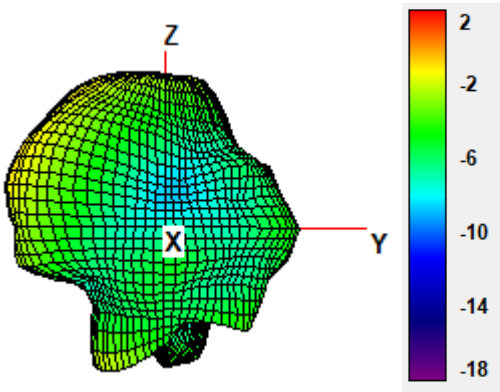
Max Antenna 3D Radiation Pattern 1575 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
1575	-1.5



Max Antenna 3D Radiation Pattern 2400-2500 MHz

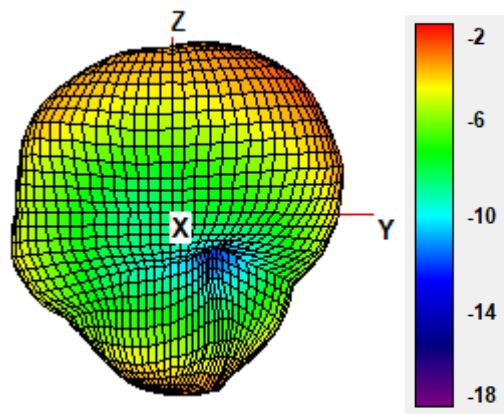
Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
2400-2500	1.35



LoRa / BLE2 Antenna

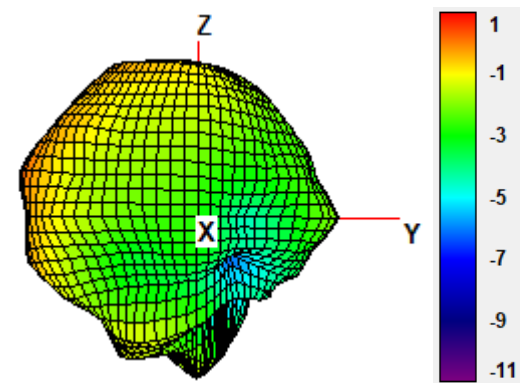
Max Antenna 3D Radiation Pattern 902 – 928 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
902-928	-3.16



Max Antenna 3D Radiation Pattern 2400-2500 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
2400-2500	0.54



MPS Antenna

Max Antenna 3D Radiation Pattern 5725 – 5890 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5725-5890	4.15

